DISCLOSURES UNDER CONSIDERATION

Philip Morris Incorporated
Privileged and Confidential

13 April 1981

Code 1 - Offensive/Urgent
Code 2 - Defensive/Urgent
Code 3 - Offensive/Normal
Code 4 - Defensive/Normal

653 A METHOD FOR PREPARING A RECONSTITUTED TOBACCO PRODUCT USING PRECIPITATION/COAGULATION OR CROSS-LINKING TECHNIQUES

G. Keritsis
Tobacco Materials/Burns/Gannon

The disclosure relates to smoking materials and the processes for making them through the use of extrusion and/or coating techniques for tobacco smoking formulations.

Related to PM 641.

Inskeep

1-9-81	New examples received from inventor.
1-19-81	File reopened.
2-19-81	Further write-up received from inventor.
3-31-81	Further write-up received from inventor.

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ϕ0000016211

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

689 CROSS-LINKED SMOKING MATERIAL

G. Keritsis
Tobacco Materials/Burns/Gannon

Tobacco or non-tobacco materials are treated by spraying, dipping, coating, or homogenizing certain classes of compounds capable of reacting with a substrate or of forming water-insoluble films or coatings with a substrate. Filling capacity, structure stabilization, moisture insensitivity, strength (wet and dry), and processability are improved.

Related to 641.

WLKT/Inskeep

11-80	New data received.
12-80	Split out of 641--new data to WLKT for consideration.

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779 MEANS TO MEASURE TOBACCO FIRMNESS ON CIGARETTE MAKER

J. Osmalov
Tobacco Services/Osmalov/Gannon

A cigarette rod firmness control device has a firmness detector head comprising a differential transformer coupled to a detector shoe, which is biased toward and rides on a dynamically-flowing rod of tobacco. The detector shoe is displaced to and from the axial center lkine of the tobacco rod in response to the firmness of the rod, which is dependent on the rate of flow of tobacco into the rod forming garniture. The tobacco feed rate into the rod forming garniture is increased or decreased in response to signals generated by the level and the variations of rod firmness at the detector shoe to control rod firmness to within desired limits.

Sarofeen

5-25-77	Disclosure received. Given to G. Brandt.
2-8-80	Memos from Gannon to Palmer and Kothe re status.
2-12-80	GMJS expects to receive a written analysis/opinion from Brandt that this disclosure is anticipated.
3-7-80	Opinion received.
3-11-80	Inactivated pending further developments.
7-18-80	Reactivated, new information on its way.
7-21-80	New information received.
9-4-80	Need more details of short tongue construction.
11-5-80	New data not yet compiled--per C. Irving.
1-15-81	No new data at this time.

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ϕ0000016212

Source: https://www.industrydocuments.ucsf.edu/docs/rtbj0000

796 BIOSYNTHESIS OF A TOBACCO FLAVORANT OR TOBACCO SMOOTHER--FERMENTED TOBACCO

B. Semp, D. Teng, and S. Tenhet
Biomaterials/Whidby/Farone/Lowitz

Organisms obtained from fermented tobacco are transferred into sterile tobacco extracts and by employing various fermentation techniques, flavorants similar to those present in fermented tobacco are produced. These flavorants may then be applied to various tobacco materials to enhance or enrich their subjective organoleptic characteristics.

Hutcheson
CODE 2

10-28-77	Disclosure received.
8-78	Preliminary search completed on PM data base.
3-79	Experimental work underway.
9-6-79	Additional art found on "accelerated fermentation" and forwarded to inventors. Similar concepts disclosed in US 516778 and 1262622.
9-10-79	Memo to inventors reviewing prior art.
9-79	Search requested from outside firm.
10-15-79	Search received; results under evaluation; report to be written.
6-24-80	Memo to inventors requesting a review of memo dated 10 September 1979. Awaiting response regarding search results.
7-24-80	Report of search results written by B. Monroe and sent to inventors.
9-10-80	No response yet from inventors regarding search results.
3-2-81	Note to Dr. Farone regarding status; he responded indicating that this particular concept will be actively pursued.

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00016213

Source: https://www.industrydocuments.ucsf.edu/docs/rtbj0000

800 COLOR AND ODOR REMOVAL FROM UNCURED TOBACCO

B. Semp and D. Teng
Biomaterials/Whidby/Farone/Lowitz

Green tobacco is treated with a lipase enzyme to remove lipids. The green odor is eliminated and smoking quality improved.

Hutcheson
CODE 2

11-10-77	Disclosure received.
8-78	Preliminary search completed on PM data base.
3-79	Experimental work completed.
9-11-79	Search requested from outside firm.
10-15-79	Search received; results under evaluation; report to be written.
6-15-80	Preliminary draft underway.
7-7-80	Examples to inventors for review; specific information was requested.
7-24-80	Search report written by B. Monroe and sent to inventors.
9-10-80	No comments from inventors at this time re memo of 7-7 or search results.

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836 BONDING OF POLYPROPYLENE WRAP TO ITSELF BY LASER IRRADIATION

W. Farone, A. Lilly, Jr., P. Martin, and W. Claflin
Applied Research/PhysicalResearch/Kassman/Farone/Lowitz
Cigarette Development/Gauvin/Meyer

Techniques for bonding two sheets together at high speed using focussed (2 focal length) CO_2 laser beam. Bonded area around 0.008 diameter. with reflecting foil beneath the wraps speed for bonding was 590 feet/minute with 40-60 watts power.

Sarofeen
CODE 1

5-23-78	Disclosure received.
7-12-78	Search requested from outside firm.
7-28-78	Search received--sent to Farone for evaluation. Final disclosure details expected following testing.
11-11-78	Meeting with Farone et al--special laser has to be ordered.
8-79	Testing now in progress.
11-19-79	Laser has been received and testing is active.
1-24-80	Memo to Farone indicating that work is progressive.
6-27-80	Work is still proceeding--waiting for further details.
9-4-80	Disclosures now in process of preparation by inventors.
1-15-81	Disclosure not received to date.

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000016214

Source: https://www.industrydocuments.ucsf.edu/docs/rtbj0000

840 METHOD FOR REDUCING CO DELIVERY IN NONFILTERED CIGARETTES

R. Ikeda
Cigarette Development/Gauvin/Meyer

A cigarette is made with a wrapper selected to pass through it gases of specific molecular size. Ducts are provided for passing a maximum of the smoke volume contiguously to the wrapper to maximize transfer of the said gases through the paper. Small gas molecules exit into the ambient air and out of the smoke stream prior to entering the smoker's mouth.

Sarofeen
CODE 4

6-23-78	Disclosure received. Awaiting tests by inventor to develop method. Close art. New disclosure to be submitted by Ikeda and Houck.
8-30-79	Talked with Houck--project still alive but the way to go with the construction is still being determined.
4-14-80	Waiting for further details.
9-4-80	New details not received to date.
11-4-80	Reviewed latest Filtrona samples with Ikeda.
1-15-81	New details not received to date.

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856 ELECTRON BOMBARDMENT FOR CONTROLLING BEETLE INFESTATION

R. de la Burde
Tobacco Materials/Burns/Gannon

Related to earlier Laszlo case.

INACTIVE Palmer
CODE 4

10-18-78	Disclosure received.
10-20-78	Awaiting further data.
1-14-80	No further results to be expected--Burde.
2-8-80	Memo from Gannon re status; 2-12-80 Palmer reply.
4-13-81	Inactivated.

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0000016215

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

865 REDUCED DELIVERY SMOKING PRODUCT

B. Semp and D. Teng
Biomaterials/Whidby/Farone/Lowitz

Microbial treatment of a tobacco extract followed by recombination with the fibrous portion of the tobacco produces a cigarette material that yields less HCN and CO. Additionally the TPM of the treated versus untreated also show reductions.

Related to 810 and 838.

COMBINED	Hutcheson
CODE 1	
12-21-78	Disclosure received.
6-29-79	Disclosure sent to WLKT for evaluation in view of prior filings of 810 and 838.
7-17-79	Letter to WLKT re how to proceed.
9-79	Search requested from outside firm.
9-5-79	Development work in the pilot plant may result in additional filings in this area--no definitive data at this time.
10-15-79	Search received.
11-6-79	Discussed in depth with inventors and T. Gillis; determined that additional experimental data is necessary to define optimum limits of operation for achieving best gas phase reduction.
4-3-80	Note to files recommending moving this disclosure forward as soon as possible; Lowitz/Farone concur.
5-8-80	Inventor Semp hopes to have report completed shortly.
7-30-80	Pertinent data available--may be incorporated in PM 939 Fed-Batch application.
9-9-80	Semp indicated that analytical data has been obtained. This data may be suitable for use in PM 939.
4-10-81	Combined with PM 939 (Fed-Batch) application, which should be filed by end of April.

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0000016216

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

879 PRODUCTION AND USE OF REACTION FLAVORS FROM YEAST HYDROLYSATE AND SUGARS

B. Semp, L. Wu, and J. Swain
Flavor Development/Daylor/Meyer
Biomaterials/Whidby/Farone/Lowitz

Reaction flavors for smoking products are disclosed. The flavors are prepared by reacting reducing sugars and selected hydrolysates of single-cell protein optionally in the presence of an aldehyde in an essentially solvent-free system. The thus prepared flavors may be incorporated into smoking compositions including tobacco, reconstituted tobacco, non-tobacco substitutes or mixtures thereof.

Hutcheson
CODE 2

3-20-79	Disclosure received.
4-80	Spoke with inventor Wu, and she will submit the necessary experimental data.
5-8-80	Additional information and subjectives submitted and discussed with inventor Wu.

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894 USE OF PIPERAZINES AS FLAVORANTS AND/OR COOLING COMPOUNDS

W. Edwards and Y. Houminer
Chemical Research/Sanders/Osdene

Tobacco flavorant and/or cooling compounds selected from 1,4-disubstituted pyrazines and alkylpiperizines wherein the 1,4-substituents are acyl, sulfonyl and carbamido are disclosed.

Hutcheson
CODE 4

5-7-79	Disclosure received.
11-20-79	Experimental and synthesis work completed; analytical smoking data will be obtained in the near future.
3-14-80	Sanders indicated that the work was near completion. A draft should be ready shortly.
9-10-80	Houminer indicated that they will organize data and submit for application.
4-13-81	Formal disclosure being prepared by Houminer.

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bg0001621 7

Source: https://www.industrydocuments.ucsf.edu/docs/ftbj0000

897 SYNTHESIZING PYROLYTIC PRECURSORS TO PRODUCE ALDEHYDIC-TYPE FLAVORANTS

M. Bourlas and H. Grubbs
Chemical Research/Sanders/Osdene
Analytical Research/Bourlas/Farone/Lowitz

Polymeric flavorants release compounds having controlled thermal decomposition properties producing aldehydic-type flavorants on combustion are disclosed. Prior to smoking, the compounds are non-volatile and non-migratory.

Hutcheson
CODE 2

5-7-79	Disclosure received--lacks detail.
9-4-79	Preliminary synthesis of monomers underway.
1-25-80	Examples prepared for subjective evaluation.
3-80	Inventors hope to complete this project by the end of August.
6-30-80	Project being actively persued by inventor Grubbs and assistant. Should be completed by end of summer.
9-10-80	Monomer synthesized and attempts to polymerize underway according to Grubbs.

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915 MEANS FOR REDUCING SPHERICAL ABERRATION IN A LENS

D. Lowitz
Applied Research/Farone/Lowitz

This is directed to facilitate micro images with a CO2 laser perforator which produces an invisible beam, or to generally focus invisible beam laser. When using a lens to focus a laser beam, a second or additional element may be provided that is essentially a lens element in its basic construction, but which does not have any center portion. Because lens elements of a finite size and thickness normally introduce spherical aberration, such an additional element that does not have a center region of material can be used together with the primary lens element to modify the effective focal length of the outer portion of the primary lens and to make it equal to the center portion of the primary lens, and thereby eliminate sperical aberration and permit focusing to a spot.

Sarofeen
CODE 2

8-27-79	Disclosure received--inventor notified.
9-5-79	Disclosure assigned to Sarofeen.
11-20-79	Inventor is preparing technical data.
1-24-80	No further material received to date.
4-14-80	Inventor considering advanced design.
9-4-80	Inventor now preparing new disclosure.
1-15-81	New disclosure not yet received.

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ϕ00016218

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

925 NWA IMPROVEMENTS

W. Nichols
Cigarette Development/Gauvin/Meyer

Sarofeen

9-14-79	Disclosure logged in - inventor notified.
1-24-80	One case (PM 914, Gergely) based on these improvements has been filed.
4-14-80	Awaiting further disclosures and developments.
6-27-80	Awaiting further disclosure and developments.
9-4-80	New material not yet received.
1-15-81	Inventor awaiting input re permission to disclose further data.

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941 EXTRACTION AND DENITRATION OF BURLEY STRIP

S. Muller
Tobacco Materials/Burns/Gannon

Burley strip enters the washer at the end opposite the press section. The strip is sandwiched between two porous belts and immersed in the extraction medium. Upon exiting the washer, the belts and the strip are passed through a press section to remove excess liquor. Each of the washer's two porous belts has a tensioning device to compensate for changes in length during processing. The washer operates at a continuous wash rate of 200-300 pounds per hour.

Blish

11-20-79	Disclosure received - inventor notified.
1-21-80	Assigned to Hutcheson; discussed with manager.
3-80	Close art found on apparatus aspects of the invention.
5-19-80	Memo to inventor and others requesting that they consider prior art and distinguish the apparatus previously disclosed.
7-30-80	Sent informal note to K. Burns regarding resolution of this disclosure.
1-26-81	Case reassigned to Blish.

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0000016219

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

942 COMPOUND TO ADD TO TOBACCO TO PRODUCE NICOTINE UPON SMOKING

W. Chan
Chemical Research/Sanders/Osdene

Nornicotine and ethyl bromoacetate reacted to give ethyl 2-(3-pyridyl)-pyrrolidylacetate. Hydrolysis of the acetate gave the corresponding acid. Preliminary pyrolytic data indicated the acid will decarboxylate in good yield to give nicotine at a temperature as low as 200°. Polymerization of the isopropenyl ester will produce a resin which on pyrolysis should give nicotine.

Related to 703.

INACTIVE Inskeep

11-21-79	Disclosure received - inventor notified.
12-79	Assigned to Inskeep.
1-2-80	Copy of disclosure sent to Depaoli re PM 703.
3-25-80	Latest information, examples will be forthcoming.
11-24-80	Inventors trying to make compounds that perform.
4-9-81	Inactivated per E. Sanders.

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944 PREPARATION OF MIXED MALONATE ESTERS

E. Southwick
Chemical Research/Sanders/Osdene

Malonate esters useful as monomers for the preparation of flavor release agents.

Inskeep

12-12-79	Disclosure received--inventor notified.
1-21-80	Assigned to Inskeep.
3-25-80	Experimental work needed.
9-10-80	Polymer has been made, pyrolytic analysis in progress.
1-15-81	Inventor still attempting to make satisfactory products.

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ϕ0000016220

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

952 PORTABLE PROGRAMER SYSTEM

W. Smick
Engineering/Grollimund/Kay/Pasquine

Object: This unit provides a quick and easy means of operating a piece of equipment, under prototype conditions, to develop an operating sequence and test the equipment at a minimal cost. Description: A portable programmer system is being used to provide electrical control and power to operate the Malaucene rewinder and optical table. This system incorporates a Texas Instruments programmable controller on various 6MI I/0 components as well as conventional power equipment.

Divided out of 892.

Sarofeen

2-18-80	Disclosure received--Kay notified.
6-27-80	New disclosure being prepared by inventor.
9-4-80	Inventor is not ready with best mode.
11-5-80	New disclosure not received to date.
1-15-81	New disclosure not received to date.

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961 CIGARETTE PACKAGING

Engineering/Kay/Pasquine

Open-ended, semi-rigid outer sleeve for packaging cigarettes.

Palmer

4-16-80	Disclosure received from J. Kay--notified.
4-16-80	Search requested from outside firm.
5-9-80	Search received.

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ϕ00016221

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

971 SELECTIVE REMOVAL OF METALLIC IONS FROM TOBACCO SOLUBLES USING MEMBRANE ELECTRODIALYSIS

G. Keritsis
Tobacco Materials/Burns/Gannon

An improved method for selectively removing positively charged ions from tobacco extracts using electrodialysis. Smoking products containing the thus treated tobacco have improved smoking properties.

Related to 953.

COMBINED Hutcheson

7-7-80	Disclosure received--inventor notified.
9-3-80	Inventor submitted experimental data.
9-10-80	Data organized and forwarded to T. Gillis for consideration.
12-10-80	Instructions to Gillis to pursue study.
1-81	Gillis has incorporated the improvements into 867A CIP which she is presently preparing.
2-10-81	Combined with PM 867A CIP.
3-81	867A CIP filed.

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977 RL BLENDING

J. Osmalov and F. Sherwood
Tobacco Services/Osmalov/Gannon

At the present time RL and BL are produced in sheet form and then subsequently threshed or cut into squares which are subsequently processed as part of the leaf blend. The present invention eliminates the handling of RL as a leaf component and adds it into the blend as a cut filler in the same manner as ET and ES. At the end of the sheet making process slitters and cutters would be installed to produce shreds of RL to go directly into the blend, to eliminate the subsequent redrying of the RL thus reducing the load on the Adt dryers.

Inskeep

7-21-80	Disclosure received--assigned to Inskeep.
11-10-80	Work in progress.
2-17-81	Some results; more coming but not right away.
4-9-81	Process looking good; proceed.

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0000016222

Source: https://www.industrydocuments.ucsf.edu/docs/rtbj0000

980 A PROCESS TO ABATE THE PRESENCE OF TOBACCO PARTICLES FROM PACKAGE

C. Moogalian
Flavor Development/Daylor/Meyer

Abate the conspicuous presence of tobacco fines by placing plastic film on the inside of the package in contact with the tobacco end of the cigarettes so that the fines will be trapped by the electrostatic charge possessed by the film.

Blish
8-15-80 Disclosure received--inventor notified.

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981 FLAVORED NONTOBACCO FILLER THAT DOES NOT REQUIRE COMBUSTION FOR FLAVOR RELEASE

C. Moogalian
Flavor Development/Daylor/Meyer

This idea is a flavored non-tobacco filler that does not require combustion for flavor release, e.g., cellulose acetate tow which is flavored and contains a potential chemical heat and basic pH source. Materials such as tobacco resinoids and other selected flavorants, chemically or otherwise bound, would be used, such as nicotine in the form of its malate or sulfate salt, or flavor encapsulated in waxes. The flavor release could come from an activator which injects perhaps an acidic solution into the rod.

Inskeep
8-20-80 Disclosure received--inventor notified.
2-18-81 Reduction to practice still in future.

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982 LIQUID LEVEL GAUGE

S. Barton
Engineering Services/Mutter/Gannon

Objective: To use readily available commercial material and standard parts to make a liquid level gauge. Commercially available gauges are expensive and have very long delivery time.

INACTIVE Blish
8-22-80 Disclosure received--inventor notified.
3-23-81 Inactivated in view of prior art.

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0000016223

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

987 METHOD AND APPARATUS FOR DETECTING THE PRESENCE OF REQUIRED CIGARETTES AND FILTERS

R. Knight
Engineering/Pasquine/Kay

The object of the invention is to detect the presence of the required number of cigarettes and filter, also check for sufficient tobacco in each and more reliably in one operation.

Sarofeen

9-11-80	Disclosure received--inventor notified.
9-17-80	Memo to Kay: do we proceed?

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989 RESPONSE TO MENTHOL

E. Sanders
Chemical Research/Sanders/Osdene

Concerns the use of higher moisture levels in menthol cigarettes.

Hutcheson

6-2-80	In-house search completed by B. Monroe and sent to inventors.
9-16-80	Disclosure received--inventor notified.
3-3-81	Memo to inventor suggesting discussing with Gauvin.

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994 SELECTIVE FILTRATION

E. Sanders
Chemical Research/Sanders/Osdene

Inventor proposes modification to the cellulose backbone of the filter. Grafting of an alkyl carboxylic acid chain onto the cellulose would reduce the amount of nicotine in mainstream smoke; grafting of an alkyl amine onto the cellulose would enhance the nicotine; grafting an alkylthiol chain onto the cellulose would reduce the level of acrolein.

INACTIVE Inskeep

9-18-80	Disclosure received--inventor notified.
1-16-81	Further work still in the future.
4-9-81	Inactivated per E. Sanders.

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ϕ0000016224

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

997 FILTER ROD GROOVING TECHNIQUE

W. Mutter
Engineering Services/Mutter/Gannon

WLKT/Torrente/GMJS
10-2-80 Disclosure received--inventor notified.
10-3-80 Letter to Kothe asking for analysis and opinion.
10-13-80 Torrente visit.
3-23-81 WLKT instructed not to do any further work on this case.

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999 VARIABLE DILUTION FILTER

J. Adams
Engineering/Taylor/Kay/Pasquine

Object of the invention: to have the customer be able to control the proportions of the constituents received through the filter.

Blish
10-28-80 Disclosure received--inventor notified.
12-9-80 In-house search completed.

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1002 APPARATUS TO ARRANGE TOBACCO LEAVES IN PROPER ORIENTATION

D. Teng
Biomaterials/Whidby/Farone/Lowitz

This invention is for a device to arrange tobacco leaves in a proper orientation so that the tips of tobacco leaves can be mechanically removed (tipping) before the stems are removed. Loose tobacco leaves are placed on a first conveyor. As the leaves fall off from the first conveyor the heavier end (stem-end) will go down first. When the leaves get to the slanted bottom of the tower the stem ends will be directed toward frond. Leaves will be carried by a second conveyor already oriented in the same direction. When the leaves hit a third conveyor, which is slanted and running perpendicular to the second conveyor they will be even at the stem ends. They can go through the tipping machine in a properly oriented manner.

Blish
CODE 2
11-17-80 Disclosure received--inventor notified.
11-25-80 Search requested.
3-9-81 Search results to inventor for review.

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0000016225

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

1003 CIGARETTE

T. Laszlo

A cigarette that would be a composite having a core of normal filler, surrounded by an outer layer of tobacco treated to be incapable of sustaining combustion if not being puffed. Thus, only the core would sustain static burning. Since the core would be "normal" it would restart the rest once puffing was resumed. But this arrangement would help to avoid fires caused by contact with fabrics.

Palmer
11-19-80 Disclosure received--inventor notified.

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1004 APPLICATION OF SOLID TOBACCO FLAVOR COMPOUNDS TO TOBACCO

F. Sherwood, T. Skidmoore, J. Kliewer
Tobacco Services/Osmalov/Gannon

A tobacco flavor compound is dispersed in a standard tobacco casing or after-cut solution and subjected to high shear mixing to reduce the particle size of the compound. The mixing or homogenizing can be accomplished in any of several commercially available homogenizers. Once mixed the dispersion is sprayed onto tobacco using conventional spraying techniques.

Palmer
11-20-80 Disclosure received--inventors notified.

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1006 A. P. CAR INPUT AND OUTPUT

J. Long
Plant Engineering/Young/Dufilho/Taylor/Craighill

Object: Reduce spills of palletized loads of cased cigarettes during transition from a live roller conveyor to the stacker input station plus reduced maintenance and downtimw due to the absence of critical hydraulic cushioning adjustments required on the present design.

Blish
12-10-80 Disclosure received--inventor notified.
12-17-80 Assigned to Blish.
2-2-81 Disclosure reviewed with inventor; patentability search requested.

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ϕ0000016226

Source: https://www.industrydocuments.ucsf.edu/docs/ftbj0000

1008 CIGARETTE DETECTION AND REJECTION DEVICE

R. Ripley and R. Knight
Engineering/Taylor/Kay/Pasquine

The device has tappets able to slide axially against a spring biasing to bias the end of the cigarette and being adapted to trigger a control pulse if a cigarette is missing or faulty.

Blish
12-18-80 Disclosure received--inventors notified.
3-4-81 Inventors interviewed; in-house search requested.

* * * * *

1009 TIPPING PAPER WITH PRETREATED ADHESIVE

C. Hoelzel
Physical Research/Kassman/Farone/Lowitz

Hutcheson
CODE 1
1-19-81 Oral disclosure to Hutcheson--inventor notified of PM number.

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1010 HEATED DIE FOR CARBONIZED MATERIAL WITH ESSENTIALLY CIRCULAR CROSS-SECTION

D. Full
Biomaterials/Whidby/Farone/Lowitz

Blish
CODE 4
1-21-81 Disclosure received--inventor notified.

* * * *

1011 EXPANDED TOBACCO--PROCESS IMPROVEMENT

T. Laszlo

Palmer
1-22-81 Disclosure received--inventor notified.

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2029000227

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

1012 DENITRATION OF TOBACCO EXTRACT LIQUOR OR SOLID TOBACCO MATERIAL

B. Semp and D. Teng
Biomaterials/Whidby/Farone/Lowitz

A process for denitration of either tobacco extract liquor or solid tobacco materials has been developed which removes nitrate using bacteria which are naturally present on tobacco. The specific bacteria desired are selected from the total mixture of those present by heating the substrate to 55°C and allowing the desired strains to first grow and then denitrify, the high temperature suppressing undesirable micro-organisms. An increase in pH of the substrate to around 7 is desirable and can be facilitated if desired. The movement of the substrate is controlled to minimize unwanted side reactions.

Hutcheson
CODE 2

1-26-81	Disclosure received--inventors notified.
4-13-81	Inventor Semp has indicated that experimental data generated at Park 500 is now available--preparation of the application may now proceed.

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1013 SELF-CLEANING VACUUM PORT

E. Grollimund and D. Brookman
Engineering/Pasquine/Kay

Blish

2-5-81	Disclosure received--inventors notified.

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1014 JET INJECTORS

R. Jenkins, Jr.
Chemical Research/Sanders/Osdene

Use of modified "jet injectors" of the type used for human immunizations to add flavors and/or additives to the cigarette rod on the conventionall cigarette making machine prior to the cutting of the rod to cigarette length.

Hutcheson

2-13-81	Disclosure received--inventor notified.
2-81	Searchs conducted by TIF and B. Monroe.
2-16-81	Discussed British 1342931 with inventor. He plans to try out the injection device and will follow-up if he feels it's warranted.

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ϕ0000016228

Source: https://www.industrydocuments.ucsf.edu/doc/tbj0000

1015 BURN CONTROL AGENTS

R. Jenkins, Jr.
Chemical Research/Sanders/Osdene

Addition of burn control agents to the central region of a cigarette to reduce sidestream visibility and gaseous smoke. The reduced visibility would improve consumer and non-smoker acceptance.

Hutcheson
2-13-81 Disclosure received--inventor notified.

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1020 FLUTED FILTER HOLDER

M. Garthaffner
Engineering/Taylor/Kay/Pasquine

This filter holder holds a filter cigarette against a rubber seal which is installed in the insert. In doing so it seals the rear of the filter except for a 4 mm diameter hole through which smoke is drawn. The rubber seal prevents a by-pass of the filter.

Blish
2-25-81 Disclosure received--inventor notified.

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1021 ACOUSTICAL PANELS

A. Uhler, Jr.
Engineering/Taylor/Kay/Pasquine

Object of the invention is to prevent tobacco beetle infestation by using 20 mesh screen in an acoustic absorption panel and yet allowing maximum sound absorption.

Blish
2-25-81 Disclosure received--inventor notified.

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0000016229

Source: https://www.industrydocuments.ucsf.edu/docs/rtbj0000

1022 ACOUSTICAL BAFFLES

A. Uhler, Jr.
Engineering/Taylor/Kay/Pasquine

Object of the invention is to prevent tobacco beetle infestation by use of spunbonded olefin, which is a tough and cleanable and allows good sound absorption, as a facing material on an acoustical absorber.

Blish
2-25-81 Disclosure received--inventor notified.

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1023 TOBACCO CUTTER DIAMOND PATTERN

R. Lanier and R. DeVilbiss
Engineering/Taylor/Kay/Pasquine

Objects of the invention are to achieve uniformity in size, to produce a smooth edge when cut, to minimize scrap, and to reduce operational cost.

Blish
2-25-81 Disclosure received--inventors notified.

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1024 ROTARY SAW BLADE SHEET CUTTER

R. Thatcher and J. Tomanovits
Engineering/Kay/Pasquine

Palmer/Unassigned
2-25-81 Disclosure received--inventors notified.

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1025 TOBACCO EXTRACTOR
FTR

Hutcheson
12-19-80 Disclosure received.
3-5-81 Assigned to Hutcheson.

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00016230

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

1026 TOBACCO TREATMENT (PROTEIN REMOVAL)
H. Gaisch, Ghiste, D. Schulthess
FTR

Hutcheson
2-3-81 Disclosure received.
3-5-81 Assigned to Hutcheson

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1027 OXIDATION OF TOBACCO IN PRESENCE OF POLYVALENT METAL BASE

N. Rainer
Tobacco Materials/Burns/Gannon

Objects/advantages: increased CV of tobacco filler by virtue of a stiffening effect; low processing cost; no attritional degradation; no species added foreign to tobacco.

Related to 983.

Hutcheson
3-4-81 Disclosure received--inventor notified.

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1028 SHUTTLE ASSEMBLY

J. Long
Plant Engineering/Young/Difhlo/Craighill/Taylor

Object of the invention is to reduce spills of palletized loads of cased cigarettes due to table deflection and excessive speed and rough transport, reduce wear of roller ways, reduce horsepower and make moving parts more accessible for preventive maintenance and replacement.

Sarofeen
3-4-81 Disclosure received--inventor notified.

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1029 METHOD FOR MAKING SOLUBLE CARBOXAMIDE DERIVATIVES

E. Sanders
Chemical Research/Sanders/Osdene

Hutcheson
3-10-81 Disclosure made orally with notes to Hutcheson--inventor notified of PM number.

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Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000

1031 FLAVOR SPRAY NOZZLE ASSEMBLIES

R. Rosemond (hourly)
Maintenance/Perkins/Bradley/Gray/Taylor/Craighill/Campbell/Remington

Objects of the invention include to give better atomization of the flavoring, improve tobacco heating and absorption qualities for the taking of the flavor, eliminate wet spots, and reduce maintenance.

Blish
3-16-81 Disclosure received--inventor notified.

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1032 IMPROVED PROCESS FOR MAKING 2-SUBSTITUTED PYRROLINES AND PYRROLIDINES

H. Secor
Chemical Research/Sanders/Osdene

Process provides for the preparation of a variety of new and known compounds by a simplified procedure to give 2-substituted pyrrolines and 2-substituted pyrrolidines.

Palmer/Unassigned
3-24-81 Disclosure received--inventor notified.

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1033 ROD-LIKE SMOKING ARTICLE WITH SECONDARY AIR CHANNELS AND APPARATUS FOR PRODUCING SUCH AN ARTICLE

FTR

The invention relates to a rod-like, smoking article with a rod-like mouthpiece core at the mouth end of a tobacco rod, the entire periphery of said mouthpiece core being enveloped by an adhered wrapping paper which is suitable for contact with the lips and which overlappingly follows a covering paper surrounding the tobacco rod and with secondary air channels covered by the wrapping paper on the periphery of the mouthpiece core and an apparatus for producing such an article.

Palmer/Unassigned
4-8-81 Disclosure received.

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Source: https://www.industrydocuments.ucsf.edu/docs/#bj0000

1034 APPARATUS FOR STAMPING OPEN CHANNELS IN THE PERIPHERY OF FILTER PORTIONS

FTR

The invention relates to an apparatus for impressing or stamping open channels into the periphery of rod-like, peripherally thermally deformable filter portions of smokers' requisites transported in troughs arranged coaxially to the rotation axis and equidistantly on the periphery of a trough conveyor driven in rotary manner and stamped with heated stamping dies. Such filter portions can be produced by extruding in the form of a strand and subsequently dividing into portions.

Palmer/Unassigned
4-8-81 Disclosure received.

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1035 ROD-LIKE SMOKING ARTICLES WITH A FILTER ROD AT THE MOUTH END AND APPARATUS FOR PRODUCING SUCH AN ARTICLE

FTR

The invention relates to a rod-like, smoking article with a filter rod at the mouth end of a tobacco rod, said filter rod having over its entire periphery a wrapping paper suitable for contact with the lips, which is overlappingly connected to a wrapper surrounding the tobacco rod and has on its periphery secondary air channels covered by the wrapping paper and an apparatus for producing such an article.

Palmer/Unassigned
4-8-81 Disclosure received.

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Φ0000016233

Source: https://www.industrydocuments.ucsf.edu/docs/tbj0000